



FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 0942.4630001	APPLICATION NO. 09/650,339
		APPLICANT David A. Epstein et al.	
		FILING DATE August 28, 2000	GROUP <u>1645</u> <u>1651</u>

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>HBB</i>	AA1	4,205,126	05/27/1980	Cartaya	435	2	12/14/1978
	AB1	RE 30,985	06/29/1982	Cartaya	435	240	02/06/1981
	AC1	4,550,101	10/29/1985	Hider et al.	514	188	03/24/1983
	AD1	4,533,637	08/06/1985	Yamane et al.	435	240	05/18/1982
	AE1	4,575,502	03/11/1986	Hider et al.	514	184	10/18/1983
	AF1	4,650,793	03/17/1987	Hider et al.	514	188	03/22/1984
	AG1	4,665,064	05/12/1987	Hider et al.	514	184	10/31/1984
	AH1	4,666,927	05/19/1987	Hider et al.	514	350	09/18/1984
	AI1	4,767,704	08/30/1988	Cleveland et al.	435	68	10/07/1983
<i>HBB</i>	AJ1	4,834,983	05/30/1989	Hider et al.	424	463	05/26/1987
	AK1	4,861,767	08/29/1989	Hider et al.	514	184	07/13/1987

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>HBB</i>	AL1	WO 88/02774	04/21/1988	WIPO			Yes No
	AM1	WO 94/02592	02/03/1994	WIPO			Yes No
	AN1	WO 98/15614	04/16/1998	WIPO			Yes No
	AO1	WO 98/08934	03/05/1998	WIPO			Yes No
<i>HBB</i>	AP1	EP 0 282 942 A2	09/21/1988	Europe			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>HBB</i>	AR	1	Bridges, K.R., and Cudkowicz, A., "Effect of Iron Chelators on the Transferrin Receptor in K562 Cells," J. Biol. Chem. 259:12970-12977, American Society of Biological Chemists, Inc. (1984).
<i>HBB</i>	AS	1	Darfler, F.J., "A Protein-Free Medium for the Growth of Hybridomas and Other Cells of the Immune System," In Vitro Cell. Dev. Biol. 26:769-778, Tissue Culture Association (1990).
<i>HBB</i>	AT	1	Eto, N., et al., "Development of a Protein-free Medium with Ferric Citrate Substituting Transferrin for the Cultivation of Mouse-Mouse Hybridomas," Agric. Biol. Chem. 55:863-865, Agricultural Chemical Society of Japan (1991).

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>HJM</i>	AA2	4,879,222	11/07/1989	Alderman et al.	435	68	08/28/1986
	AB2	4,908,371	03/13/1990	Moerker et al.	514	318	11/01/1988
	AC2	4,912,118	03/27/1990	Hider et al.	514	332	12/22/1986
	AD2	5,045,454	09/03/1991	Bertheussen	435	29	02/23/1990
	AE2	5,045,468	09/03/1991	Darfler	435	240.31	08/15/1989
	AF2	5,057,302	10/15/1991	Johnson et al.	424	1.1	01/04/1988
	AG2	5,057,302	10/15/1991	Johnson et al.	424	1.1	01/04/1988
	AH2	5,061,815	10/29/1991	Leu	556	118	05/29/1990
	AI2	5,118,513	06/02/1992	Mehansho et al.	426	2	08/16/1990
<i>HJM</i>	AJ2	5,135,866	08/04/1992	Heifetz et al.	435	240.31	03/03/1989
	AK2	5,177,068	01/05/1993	Callingham et al.	514	184	05/08/1989

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>HJM</i>	AL2	EP 0 872 487 A2	10/21/1998	Europe			Yes No
<i>HJM</i>	AM2	EP 0 872 487 A3	10/27/1999	Europe			Yes No
	AN						Yes No
	AO						Yes No
<i>X</i>	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>HJM</i>	AR	2	Forsbeck, K., et al., "Variation in iron accumulation, transferrin membrane binding, and DNA synthesis in the K-562 and U-937 cell lines induced by chelators and their iron complexes," <i>Eur. J. Haematol.</i> 39:318-325, Munksgard (1987).
<i>HJM</i>	AS	2	Ganeshaguru, K., et al., "Effect of Various Iron Chelating Agents on DNA Synthesis in Human Cells," <i>Biochem. Pharmacol.</i> 29:1275-1279, Pergamon Press Ltd. (1980).
<i>HJM</i>	AT	2	Ham, R.G., "Formulation of Basal Nutrient Media," in <i>Methods for Preparation of Media, Supplements and Substrata for Serum-Free Animal Cell Culture</i> , Vol. 1, Barnes, D.W., et al., eds., Alan R. Liss, Inc., New York, pp. 3-21 (1984).

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18-JUN-01

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		APPLICANT David A. Epstein et al.	
		FILING DATE August 28, 2000	GROUP 1645-1651

## U. S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>HJM</i>	AA3	5,202,451	04/13/1993	Fritzberg et al.	556	419	02/17/1988
	AB3	RE 34,313	07/13/1993	Hider et al.	514	188	10/01/1991
	AC3	5,227,474	07/13/1993	Johnson et al.	534	558	05/28/1991
	AD3	5,232,848	08/03/1993	Wolfe et al.	435	240.31	11/16/1989
	AE3	5,256,676	10/26/1993	Hider et al.	514	348	07/24/1992
	AF3	5,278,329	01/11/1994	Anderson	556	50	02/21/1992
	AG3	5,302,370	04/12/1994	Neumeier et al.	424	1.53	08/22/1990
	AH3	5,393,903	02/28/1995	Grätzel et al.	556	137	02/19/1992
	AI3	5,419,894	05/30/1995	Gries et al.	424	1.65	03/28/1994
	AJ3	5,424,057	06/13/1995	Peter et al.	424	365	04/08/1994
<i>HJM</i>	AK3	5,430,058	07/04/1995	Shanzer et al.	514	575	03/01/1993

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>HJM</i>	AR	3	Inoue, Y., et al., "Production of Recombinant Human Monoclonal Antibody Using ras-Amplified BHK-21 Cells in a Protein-free Medium," <i>Biosci. Biotech. Biochem.</i> 60:811-817, Japan Society for Bioscience, Biotechnology, and Agrochemistry (1996).
<i>HJM</i>	AS	3	Keenan, J., and Clynes, M., "Replacement of Transferrin by Simple Iron Compounds for MDCK Cells Grown and Subcultured in Serum-Free Medium," <i>In Vitro Cell Dev. Biol. - Animal</i> 32:451-453, Society for In Vitro Biology (1996).
<i>HJM</i>	AT	3	Kontoghiorghe, G.J., "The study of iron mobilisation from transferrin using $\alpha$ -ketohydroxy heteroaromatic chelators," <i>Biochim. Biophys. Acta</i> 869:141-146, Elsevier Science Publishers B.V. (1986).

EXAMINER <i>HJM BRS</i>	DATE CONSIDERED <i>18-JUN-01</i>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	



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**U. S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>JHJ</i>	AA4	5,430,164	07/04/1995	Abdel-Monem et al.	556	2	10/18/1994
	AB4	5,474,931	12/12/1995	DiSorbo et al.	435	240.31	09/21/1993
	AC4	5,480,894	02/02/1996	Hider et al.	514	348	05/18/1993
	AD4	5,494,935	02/27/1996	Miller et al.	514	674	04/03/1995
	AE4	5,506,266	04/09/1996	Davies et al.	514	575	08/30/1993
	AF4	5,583,243	12/10/1996	Abdel-Monem	556	49	05/19/1995
	AG4	5,624,901	04/29/1997	Raymond et al.	514	17	08/02/1994
	AH4	5,637,311	07/10/1997	Pallenberg	424	434	07/29/1995
	AI4	5,688,815	11/18/1997	Zbinden	514	348	09/27/1996
<i>JHJ</i>	AJ4	5,707,604	01/13/1998	Ranney	424	9.35	06/07/1995
	AK4	5,746,995	05/05/1998	Maier et al.	424	1.65	11/30/1995

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

<i>JHJ</i>	AR	4	Koller, M.R., et al., "Alternatives to Animal Sera for Human Bone Marrow Cell Expansion: Human Serum and Serum-Free Media," <i>J. Hematotherapy</i> 7:413-423, Mary Ann Liebert, Inc. (October 1998).
<i>JHJ</i>	AS	4	Korohoda, W., et al., "Addition of iron and zinc complexes to Eagle's Minimal Essential Medium is sufficient to induce and support the proliferation of B16 melanoma cells," <i>Folia Histochemica et Cytobiologica</i> 31:3-7, Polish Histochemical And Cytochemical Society And Foundation For Cell And Molecular Biology At Vesalius University Medical Publisher (1993).
<i>JHJ</i>	AT	4	Nagira, K., et al., "Development of a Protein-free Medium with Iron Salts Replacing Transferrin for a Human-Human Hybridoma," <i>Biosci. Biotech. Biochem.</i> 59:743-745, Japan Society for Bioscience, Biotechnology, and Agrochemistry (1995).

EXAMINER <i>JHJ</i>	DATE CONSIDERED <i>18-5-01</i>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	



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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>JM</i>	AA5	5,756,825	05/26/1998	Safavy et al.	560	169	04/16/1993
<i>JM</i>	AB5	5,804,420	09/08/1998	Chan et al.	435	69.6	04/18/1997
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>JM</i>	AR	5	Neumannova, V., et al., "Growth of Human Tumor Cell Lines in Transferrin-Free, Low-Iron Medium," <i>In Vitro Cell. Dev. Biol.- Animal</i> 31:625-632, Society for In Vitro Biology (1995).
<i>JM</i>	AS	5	Okabe, T., et al., "Long-term cultivation and differentiation of human erythroleukemia cells in a protein-free chemically defined medium," <i>Proc. Natl. Acad. Sci. USA</i> 81:453-455, National Academy of Sciences of the USA (1984).
<i>JM</i>	AT	5	Qian, Z.M. and Tang, P.L., "Mechanisms of iron uptake by mammalian cells," <i>Biochim. Biophys. Acta</i> 1269:205-214, Elsevier Science B.V. (1995).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	6	Rivkin, G., et al., "IRC011, a New Synthetic Chelator With Selective Interaction With Catabolic Red Blood Cell Iron: Evaluation in Hypertransfused Rats With Hepatocellular and Reticuloendothelial Radioiron Probes and in Iron-Loaded Rat Heart Cells in Culture," <i>Blood</i> 90:4180-4187, W. B. Saunders (1997).
	AS	6	Schneider, Y.-J., "Optimisation of hybridoma cell growth and monoclonal antibody secretion in a chemically defined, serum- and protein-free culture medium," <i>J. Immunol. Meth.</i> 116:65-77, Elsevier Science Publishers B.V. (1989).
	AT	6	Testa, U., et al., "The iron-chelating agent picolinic acid enhances transferring receptors expression in human erythroleukaemic cell lines," <i>Brit. J. Haematol.</i> 60:491-502, Blackwell Science Ltd. (1985).

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>RBB</i>	AR	7	Waymouth, C., "Preparation and Use of Serum-Free Culture Media," in <i>Methods for Preparation of Media, Supplements and Substrata for Serum-Free Animal Culture</i> , Vol. 2, Barnes, D.W., et al., eds., Alan R. Liss, Inc., New York, pp. 23-68 (1984).
<i>RBB</i>	AS	7	White, G.P., et al., "The Effect of Chelating Agents on Iron Mobilization in Chang Cell Cultures," <i>Blood</i> 48:923-929, W.B. Saunders (1976).
<i>RBB</i>	AT	7	Yabe, N., et al., "Role of Iron Chelators in Growth-Promoting Effect on Mouse Hybridoma Cells in a Chemically Defined Medium," <i>In Vitro Cell. Dev. Biol.</i> 23:815-820, Tissue Culture Association, Inc. (1987).

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	8	Yabe, N., and Matsui, H., "Effects of Iron Chelates on the Transferrin-Free Culture of Rat Dermal Fibroblasts Through Active Oxygen Generation," <i>In Vitro Cell. Dev. Biol.-Animal</i> 33:527-535, Society for In Vitro Biology (1997).
	AS	8	Zang, M., et al., "Production of Recombinant Proteins in Chinese Hamster Ovary Cells Using A Protein-Free Cell Culture Medium," <i>Bio/Technol.</i> 13:389-392, Nature Publishing Co. (1995).
	AT	8	

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	AA						
	AB						
<i>DMG</i>	AC5	5,688,815	11/18/1997	Zbinden	514	348	09/27/1996
<i>OIP/EP/C</i>	AD5	5,419,894	05/30/1995	Gries et al.	424	1.65	03/28/1994
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
<i>TODD</i>	AN2	EP 0 274 445 A2	07/13/1988	Europe			Yes No
<i>TODD</i>	AO2	WO 93/00423	01/07/1993	WIPO			Yes No
<i>TODD</i>	AP2	WO 97/34999	09/25/1997	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
	AS		
<i>TODD</i>	AT	8	Kriegerbecková, K., et al., "Non-Transferrin Iron Uptake by HeLa Cells Cultured in Serum-Free Media with Different Iron Sources," Eur. J. Clin. Chem. Clin. Biochem. 33:791-797, Walter de Gruyter & Co. (1995).

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>[Signature]</i>	AL3	WO 98/15614	04/16/1998	WIPO			Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>[Signature]</i>	AR	9	International Search Report for International Patent No. PCT/US00/23580, mailed March 28, 2001.
	AS		
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EXAMINER	<i>[Signature]</i>	DATE CONSIDERED <i>18-Jun-01</i>
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